

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of

Shiying Zheng, et al

ELECTROLUMINESCENT  
DEVICES INCLUDING  
CONJUGATED POLYMERS  
CONTAINING AN AZOLE  
STRUCTURE

Serial No. To be assigned

Filed Herewith

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA. 22313-1450

Group Art Unit:

Examiner:

Express Mail Label No. EV293533067US

Date

2/25/04

Sir:

**INFORMATION DISCLOSURE STATEMENT FOR CONSIDERATION**  
**BY THE OFFICE UNDER 37 C.F.R. 1.97-1.99**

Enclosed herewith are patents and/or publications for consideration by the Patent and Trademark Office in regard to the invention claimed in the above-described application. In compliance with §1.56, such documents are listed in the enclosed Form PTO-1449.

Applicants request that the Patent and Trademark Office make of record the above-identified documents. A full text copy of each document is attached, except for copies of U.S. patents and U.S. patent application publications. For documents not in English, an English translation or an equivalent English language patent or publication may be attached. Where a translation is not available, a concise explanation of the relevance of each document not in English is included either here or in the specification.

This Information Disclosure Statement (hereinafter "Statement") is submitted according to the following selected paragraph:

- I. ☒ This Statement is being filed under §1.97(b) within three months of the filing date of the application (other than a CPA), or before the mailing of a first Office action on the merits or before the mailing of a first Office action after the filing of a request for continued examination.
- II. ☐ This Statement is being filed under §1.97(c), with fee, **prior** to the mailing date of any of a final action, a notice of allowance or an action that otherwise closes prosecution in the application. Please charge the fee required by §1.17(p) to Eastman Kodak Company Deposit Order Account Number 05-0225. A duplicate copy of this Certification is enclosed.

III. ☐ This Statement is being filed under §1.97(c), with a certification under, §1.97(e) **prior** to the mailing date of any of a final action, a notice of allowance or an action that otherwise closes prosecution in the application. The undersigned hereby states that (check one):

☐ each item of information contained in this Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Statement.

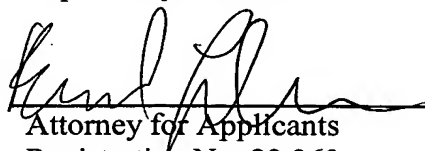
☐ no item of information in this Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing this certification under §1.97(e) after making reasonable inquiry, no item of information contained in this Statement was known to any individual designated in §1.56(c) more than three months prior to the filing of this Statement.

IV. ☐ This Statement is being filed under §1.97(d), with fee and certification under §1.97(e), on or after the mailing date of either a final action, a notice of allowance (but prior to payment of the issue fee) or an action that otherwise closes prosecution in the application. Please charge the fee required by §1.17(p) to Eastman Kodak Company Deposit Order Account No. 05-0225. A duplicate copy of this Certification is enclosed. The undersigned hereby states that (check one):

☐ each item of information in this Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Statement.

☐ no item of information in this Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing this certification under §1.97(e) after making reasonable inquiry, no item of information contained in this Statement was known to any individual designated in §1.56(c) more than three months prior to the filing of this Statement.

Respectfully submitted,

  
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Enclosures

<b>FORM PTO-1449</b> <b>US DEPARTMENT OF COMMERCE</b> <b>PATENT AND TRADEMARK OFFICE</b>		Atty. Docket No. <b>85463RLO</b> Customer No. 01333		Serial No. <b>To be assigned</b>		
If AFTER the later date of the first Office Action or 3 months from filing, use only with Rule 97(E) Certificate or Fee  <div style="text-align: center;"> <b>LIST OF ART CITED BY APPLICANT</b>  <i>(Use several sheets if necessary)</i> </div>		Applicant: <b>Shiying Zheng, et al</b>				
		Filing Date <b>Herewith</b>		Group		
<b>U.S. PATENT DOCUMENTS</b>						
Examiner <i>Initial*</i>	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE <i>IF APPROPRIATE</i>
<b>FOREIGN PATENT DOCUMENTS</b>						
Examiner <i>Initial*</i>	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES   NO
<b>OTHER ART</b> <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>						
	Burroughes et al, Light-emitting diodes based on conjugated polymers, Nature, 1990, 347, 539-41					
	Bernius et al, Progress with Light-Emitting Polymers, Adv. Mater. 2000, 12, 1737					
	Zhang et al, Blue emission from polymer light-emitting diodes using non-conjugated polymer blends with air-stable electrodes, Synth. Met. 1995, 72, 185					
	Berggren et al, Ultraviolet Electroluminescence from an Organic Light Emitting Diode, Adv. Mater. 1995, 7, 900					
	Yang et al, 1,3,4-Oxadiazole-Containing Polymers as Electron-Injection and Blue Electroluminescent Materials in Polymer Light-Emitting Diodes, Chem. Mater., 1995, 7, 1568					
	Suzuki et al, The Palladium-Catalyzed Cross-Coupling Reaction of Phenylboronic Acid With Haloarenes in the Presence of Bases, Synthetic Comm. 1981, 11(7), 513					
	Ritter, Synthetic Transformation of Vinyl and Aryl Triflates, Synthesis, 1993, 735					
	Yang et al, Polyaniline as a transparent electrode for polymer light-emitting diodes: Lower operating voltage and higher efficiency, Appl. Phys. Lett. 1994, 64, 1245					
	Groenedaal et al, Poly(3,4-ethylenedioxythiophene) and Its Derivatives: Past, Present and Future, Adv. Mater. 2000, 12, 481					
	Ranger et al, New Well-Defined Poly (2,7-fluorene) Derivatives: Photoluminescence and Base Doping, Macromolecules 1997, 30, 7686					
EXAMINER			DATE CONSIDERED			
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.						